

Claims:

1. A composition comprising:

- (a) one to three bioactive agents; and
- (b) a vehicle comprising:
 - (i) a modified liquid carrier, and
 - (ii) an un-modified liquid carrier

wherein the ratio by volume of the modified liquid carrier to the un-modified liquid carrier is between 0.00001:99.99999 to less than 0.01:99.99, that provide the composition with predictable sustained-release properties and wherein immediately after manufacture of the composition, said composition can be administered to a host such that the one to three bioactive agents is released to the host on a sustained basis.

2. The composition according to claim 1 wherein said one to three bioactive agents is selected from the group consisting of pharmaceuticals, immunogenic and immunomodulator compositions, vectors, viruses, spores, nutritional supplements and bacteria and mixtures thereof.

3. The composition according to claim 2 wherein said bioactive substance comprises crystalline cefotiofur free acid.

4. The composition according to claim 1 wherein said vehicle comprises a modified liquid carrier and an un-modified, unsaturated oil suitable for modification.

5. The composition according to claim 1 wherein said vehicle comprises a modified and an un-oxidizable oil.

6. The composition according to claim 1 wherein said modified liquid carrier comprises a modified vegetable oil wherein said vegetable oil is selected from the group consisting of corn oil, peanut oil, sesame oil, olive oil, palm oil, safflower oil, soybean oil, cottonseed oil, rapeseed oil, sunflower oil and mixtures thereof.

7. The composition according to claim 4 wherein said modified liquid carrier comprises modified cottonseed oil.

8. The composition according to claim 4 wherein said un-modified liquid carrier comprises coconut oil.
9. A composition comprising crystalline ceftiofur free acid, modified cottonseed oil and saturated coconut oil.
10. A composition comprising crystalline ceftiofur free acid, modified trilinolein and saturated coconut oil.
11. The composition according to claim 9 and 10 wherein the ratio by volume of modified cottonseed oil to saturated coconut oil is between 0.00001:99.99999 to less than 0.01:99.99.
12. The composition according to claim 17 wherein the concentration of crystalline ceftiofur free acid in said composition ranges from 50 mg/ml to 250 mg/ml.
13. The composition according to claim 17 wherein the concentration of crystalline ceftiofur free acid in said composition ranges from about 100 mg/ml to about 200 mg/ml.
14. A method for producing a pharmaceutical composition comprising the steps of modifying a liquid vehicle and combining said modified liquid vehicle with a bioactive substance.
15. A product prepared by a process comprising the steps of (i) modifying a liquid vehicle and (ii) combining said modified liquid vehicle with a bioactive substance.